# Unified Watershed Assessments and Restoration Priorities, Arkansas

### UNIFIED WATERSHED ASSESSMENTS

The unified watershed assessments and watershed restoration priorities in Arkansas were cooperatively developed from participants representing various state and federal agencies. This assessment was sent to the list of agencies, groups, and individuals in Appendix A. A working group consisting of: Diane K. Beeman, USFWS; Ken Brazil, ASWCC; Mike Daniels, UA-CES; Bill Keith, ADPC&E; Lyle Godfrey, ADH; Reed Green, USGS; John Terry, USGS; Andrew Hudson, NRCS; Bob Price, NRCS; Bob Morgan, ASWCC; Jane Jones Schulz, NHC; and Pam Smith, NRCS (1) gathered information to be used in the assessment, (2) made preliminary prioritization, and (3) prepared materials for public dissemination.

Unified watershed assessments were developed through a cooperative integration of existing assessment reports and processes using existing and appropriate data and information. In addition, professional judgement and personal knowledge of the working group was used to asssess the watersheds. Watersheds defined by the U.S. Geological Survey (USGS) 8-digit hydrologic units were used (See Figure 1) for the evaluation and assessment process. The condition of the 8-digit watersheds was determined, either directly or by aggregating assessments of smaller watersheds within. Appendix B contains maps of relevant data sets. Additionally other unmapped data was used. Nationally, the 8-digit hydrologic unit scale will serve as the common scale for reporting the results of watershed assessments and to help target resources. Each 8-digit unit was assessed based on the characteristics and conditions of waters within and the overall health of the aquatic system using the following framework:

Category I — Watersheds in Need of Restoration. These watersheds do not now meet, or face imminent threat of not meeting, clean water and other natural resource goals. Category I watersheds were based on the number and type of water bodies meeting clean water and other natural resource goals (e.g. extraordinary resource waters, miles of streams, etc.). The following factors were considered in assessing Category I watersheds:

- 8-digit hydrologic unit watersheds containing Arkansas Department of Pollution Control and Ecology 303(d) impaired streams;
- 8-digit hydrologic unit watersheds containing Arkansas Department of Health monitored drinking water systems with multiple occurrences of constituents recorded above maximum contaminant or action levels;
- 8-digit hydrologic unit watersheds containing Arkansas Department of Heritage streams with imperiled or critically imperiled aquatic species; and
- 8-digit hydrologic unit watersheds containing Arkansas Soil and Water Conservation Commission section 319 priority watersheds.

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Category II – Watersheds Meeting Goals, Including Those Needing Action to Sustain Water Quality. These watersheds meet clean water and other natural resource goals and standards and support healthy aquatic systems. All such watersheds need the continuing implementation of core clean water and natural resource programs to maintain water quality and conserve natural resources. The following factors were considered in assessing category II watersheds:

- 8-digit hydrologic unit watersheds containing Arkansas Department of Pollution Control and Ecology 303(d) impaired streams;
- 8-digit hydrologic unit watersheds containing Arkansas Department of Pollution Control and Ecology 303(d) concern streams;
- 8-digit hydrologic unit watersheds containing Arkansas Soil and Water Conservation Commission section 319 priority watersheds;
- 8-digit hydrologic unit watersheds containing USDA Natural Resources Conservation Service environmental quality incentive program (EQIP) projects;
- 8-digit hydrologic unit watersheds containing Arkansas Department of Heritage streams with imperiled or critically imperiled aquatic species; and
- 8-digit hydrologic unit watersheds containing Arkansas Department of Health monitored drinking water supplies listed as surface water or ground water under direct influence of surface water.

Category III – Watersheds with Pristine/Sensitive Aquatic System Conditions on Lands Administered by Federal, State, or Tribal Governments. States/tribes work cooperatively with federal land managers to identify watersheds with exceptionally pristine water quality, other sensitive aquatic system conditions, and drinking water sources that are located on lands administered by federal, state, or tribal governments. Pristine Conditions reflect unmeasureable impacts from point or nonpoint sources. Sensitive Conditions include rare and endangered, restricted endemics, and are known to be intolerant to environmental disturbances. These areas include currently designated and potential candidate Wilderness Areas, Outstanding Natural Resource Waters, and Wild and Scenic Rivers.

Category IV – Watersheds with Insufficient Data to Make an Assessment. These watersheds lack significant information, critical data elements, or the data density needed to make a reasonable assessment at this time. The majority of the waters in this category are in the Mississippi River Basin. This waterbody is the subject of multi-state and multi-agency investigations and activities in Arkansas will not have a measurable affect on the Mississippi River.

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The 58 watersheds were classified as:

Category I - 17;

Category II, - 31;

Category III, - 28;

Category IV - 10.

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Table 1 lists the categorization of the 8-digit hydrologic unit and Figure 2 is a map of the categories. Many category I, II, and IV watersheds were also assessed as category III.

Table 1. Watershed assessment by 8-digit hydrologic unit.

	Hydrologic Unit Number	Hydrologic Unit Name	I Watersheds not meeting, or facing imminent threat of not meeting, clean water or other natural resource goals.	Watersheds meeting goal but needing action to sustain water quality	Watersheds with pristine/ sensitive aquatic system conditions on federal, state, or tribal lands	Watersheds where more information is needed to assess conditions
1	08010100	Lower Mississippi-Memphis		127		
2	08020100	Lower Mississippi-Helena				
3	08020203	Lower St. Francis			Line America	
4	08020204	Little River Ditches				
5	08020205	L'anguille				
6	08020301	Lower White-Bayou Des Arc			100	
7	08020302	Cache				
8	08020303	Lower White				
9	08020304	Big			10.5	
10	08020401	Lower Arkansas			76 T 105	
11	08040402	Bayou Meto				20.000.000
12	08030100	Lower Mississippi-Greenville			97.1	
13	08040101	Ouachita Headwaters				
14	08040102	Upper Ouachita				
15	08040103	Little Missouri				
16	08040201	Lower Ouachita-Smackover				
17	08040202	Lower Ouachita-Bayou De Loutre				
18	08040203	Upper Saline				70.00
19	08040204	Lower Saline				
20	08040205	Bayou Bartholomew				7.5
21	08040206	Bayou D'arbonne				
22	08050001	Boeuf				
23	08050002	Bayou Macon				
24	11010001	Beaver Reservoir				
25	11010003	Bull Shoals Lake				
26	11010004	Middle White				
27	11010005	Buffalo				
28	11010006	North Fork White				
29	11010007	Upper Black				
30	11010008	Current				
31	11010009	Lower Black				

	Hydrologic Unit Number	Hydrologic Unit Name	Watersheds not meeting, or facing imminent threat of not meeting, clean water or other natural resource goals.	Watersheds meeting goal but needing action to sustain water quality	Watersheds with pristine/ sensitive aquatic system conditions on federal, state, or tribal lands	IV Watersheds where more information is needed to assess conditions
32	11010010	Spring	FT   100 100 100 100 100 100 100 100 100 1			
33	11010011	Eleven Point	et   Lineaus et ama			
34	11010012	Strawberry				
35	11010013	Upper White-Village				
36	11010014	Little Red				
37	11070206	Lake O' the Cherokees		and the state of t		
38	11070208	Elk				
39	11070209	Lower Neosho			dominio anio i	1 100.00000
40	11110103	Illinois				
41	11110104	Robert S. Kerr Reservoir				
42	11110105	Poteau			(-)	102000000
43	11110201	Frog-Mulberry				100000000000000000000000000000000000000
44	11110202	Dardanelle Reservoir				
45	11110203	Lake Conway-Point Remove				
46	11110204	Petit Jean				
47	11110205	Cadron			0.00	50,000,000
48	11110206	Fourche La Fave				
49	11110207	Lower Arkansas-Maumelle				1010:000 1
50	11140105	Kiamichi				
51	11140106	Pecan-Waterhole			Luman IA oli	
52	11140108	Mountain Fork				10,000
53	11140109	Lower Little				1020440
54	11140101	Mckinney-Posten Bayous		1	910/12/1995	
55	11140203	Loggy Bayou				
56	11140205	Bodcau Bayou				
57	11140302	Lower Sulphur				
58	11140304	Cross Bayou				

### Watershed Restoration Priorities

Watershed restoration priorities were selected with special attention to watersheds most in need of restoration and protection through the year 2000. Category I watersheds most in need of restoration were identified by grouping the 17 watersheds into high (most in need of restoration), medium, and low priority. Seven watersheds were identified as high priority.

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Each of the seven high priority watersheds were evaluated and ranked by group consensus which resulted in priority assignments of 1 through 7, one being the highest priority (Figure 3):

- 1. 11010001 Beaver Reservoir,
- 2. 11140109 Lower Little,
- 3. 11110103 Illinois,
- 4. 11010012 Strawberry,
- 5. 08040205 Bayou Bartholomew,
- 6. 11010014 Little Red, and
- 7. 11110205 Cadron.

Numerous factors were considered in selecting watershed restoration priorities including the category I assessment factors, as well as others. These factors reflect available data and existing assessments relevant to the watershed. The seven, 8-digit hydrologic unit watersheds that were identified as most in need of restoration (or degradation avoidance) were ranked considering all factors pertaining to the individual watersheds. Individuals within the group selecting watershed restoration priorities weighted the importance of each factor based on their own judgment and priority rankings were selected by consensus.

Beaver Reservoir watershed was selected as top priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- one state extraordinary water resource,
- one imperiled aquatic species,
- drinking water supplies serving a population of about 250,000,
- one state impaired water body,
- numerous state waters of concern,
- · three USDA EQIP projects,
- one state 319 priority area, and
- interstate waters of concern.

Lower Little watershed was selected as second priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- federal and state scenic river designations,
- · five imperiled aquatic species,
- three state waters of concern,
- one USDA EQIP project,
- drinking water supplies serving a population of about 100,000,
- one state extraordinary water resource, and
- interstate waters of concern.

Illinois River watershed was selected as third priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- one USDA EQIP project,
  - several state waters of concern,
  - · one state 319 priority watershed,
  - · two imperiled aquatic species,
  - · drinking water supplies serving a population of about 18,000, and
  - interstate waters of concern.

Strawberry River watershed was selected as fourth priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- · one imperiled aquatic species,
- one designated state scenic river,
- · one Nature Conservancy critical watershed,
- one USDA EQIP project,
- one state impaired water body,
- one state water body of concern, and
- one state extraordinary water resource.

Bayou Bartholomew watershed was selected as fifth priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- one state impaired water body,
- · one USDA EQIP project,
- one state 319 priority watershed,
- one Nature Conservancy critical watershed, and
- one state wetland restoration area.

Little Red watershed was selected as sixth priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- two state water bodies of concern,
- · two USDA EQIP projects,
- two imperiled aquatic species,
- one Nature Conservancy critical watershed,
- drinking water supplies serving a population of about 70,000, and
- one state extraordinary water resource.

Cadron watershed was selected as seventh priority. Selection factors within this 8-digit hydrologic unit watershed included (in no particular order):

- one USDA EQIP project,
- one drinking water supply serving a population of about 50,000, and
- · one state extraordinary water resource.

Beginning in FY-1999, Watershed Restoration Action Strategies to restore the health of those watersheds most in need of attention will be developed and implemented. Specific actions will be developed for conditions in a specific watershed. Attention to the 10 remaining category I watersheds will be included in the long-term schedule following implementation of watershed restoration action strategies developed for the seven FY 1999-2000 priority watersheds.

## References

Arkansas Water Quality Inventory Report 1998, 373 pp.

Arkansas' Water Quality Limited Waterbodies -303(d) List. 1998, 6pp.

Regulation Establishing Water Quality Standards for Surface Waters of the State of Arkansas. January 1998, 87 pp.

Rivers of Life: Critical Watersheds for Protecting Freshwater Diversity, The Nature Conservancy, 1998 Report.

Mississippi River Alluvial Plain, The Big Woods of Arkansas, The Nature Conservancy

# APPENDIX A

LIST OF AGENCIES, GROUPS, AND INDIVIDUALS

Mr. Harold Grimmett, Director ArkansasNatural Heritage Commission 1500 Tower Building 323 Center Street Little Rock, AR 72201 Mr. Lynn Neff, Forest Supervisor U.S. Forest Service 605 West Main Street Russellville, AR 72801-3614 Mr. Keith Stokes Route 2 Box 895 Dardanelle, AR 72835

Dr. Henry English University of Arkansas at Pine Bluff 1200 North University Drive Pine Bluff, AR 71611 Mr. George Richardson USDA- Agri Liaison UAPB P.O. Box 82 Pine Bluff, AR 71601 Ms. Nancy DeLamar, State Director Nature Conservancy 601 North University Little Rock, AR 72205

Mr. Randall Mathis, Director ADPC&E 8001 National Drive Complex Little Rock, AR 72210 Mr. Jerry Harris, Chief Regulatory Branch U.S. Army Corps of Engineers P.O. Box 867 Little Rock, AR 72203 Mr. Jerry Moore Associated Milk Producers Post Office Box 45426 Little Rock, AR 72214

Mr. Steve Wilson, Director AG&FC #2 Natural Resources Drive Little Rock, AR 72205 Mr. Don Mitchell President AACD Box 8004, State Line Plaza Texarkana, AR 75502

Mr. Jon Schneider Ducks Unlimited #9 C and H Circle Stuttgart, AR 72160

Mr. John Shannon, State Forester AR Forestry Commission 3821 W. Roosevelt Road Little Rock, AR 72204 Mr. Harvey Joe Sanner American Agriculture Movement Box 950 Des Arc, AR 72040 Arkansas Wildlife Federation 7509 Cantrell, Suite 104 Little Rock, AR 72205

Mr. Melvin Tobin, USFWS Arkansas Game and Fish Commission Two Natural Resources Drive Little Rock, AR 72205 Mr. R.D. Randolph AR Dept. of Finance Authority P.O. Box 8023 Little Rock, AR 72203 Mr. Kalven Trice, STC NRCS Room 5404 Federal Building 700 W. Capitol Avenue Little Rock, AR 72201

Mr. Mike Dunaway State Executive Director Farm Service Agency 700 West Capitol Avenue, Room 5416 Little Rock, AR 72201 Mr. Terry Richardson, Vice President Riceland Food, Inc. P.O. Box 927 Stuttgart, AR 72160 Ms. Erin Hughes Winrock International 38 Winrock Drive Morrilton, AR 72110-9537

Mr. John Edwards State Director Rural Development Rm 5529 Federal Building 700 W. Capitol Avenue Little Rock, AR 72201 Mr. Don Allen, Exec V-Pres Arkansas Poultry Federation P.O. Box 1446 Little Rock, AR 72203 Ms. Jane Saginaw
Regional Administrator
Environmental Protection Agency
1445 Ross Avenue
Dallas, TX 75202-2733

Dr. Dave Foster, Director Cooperative Extension Service P.O. Box 391 Little Rock, AR 72203 Mr. Jim Clower Arkansas Cattlemen's Association 310 Executive Court Little Rock, AR 72211

Mr. Calvin R. King, Sr. Executive Director ALFDC Route 2, Box 291 Brinkley, AR 72021

Mr. Randy Young, Exec Director ASWCC 101East Capitol, Suite 350 Little Rock, AR 72201 Mr. Rodney Baker, Director Legislative Affairs AR Farm Bureau P.O. Box 31 Little Rock, AR 72203 Mr. Roy Mahler Madison County Conservation Distri-Route 2, Box 130 Elkins, AR 72727 he Unified Watershed Assessment Working Group (4503F) Jashington, D.C. 20460

Ir. David Long
G&FC
2 Natural Resources Drive
ittle Rock, AR 72205

Ar. Tom Riley Cooperative Extension Service 'ost Office Box 391 Little Rock, AR 72203

Ar. Brad Lamb
Environmental Progection Agency
445 Ross Avenue
Dallas, Texas 75202-2733

Mr. John Geise ADPC&E 3001 National Drive Complex Little Rock, AR 72210

Mr. Wes Spikes Agriculture Assistant 2527 Federal Building Little Rock, AR 72201

Mr. Dotson Collins Governor's Agricultural Liaison Office of the Governor State Capitol Little Rock, AR 72201

Mr. Steve Filipek Arkansas Game & Fish Commission 102 NE Second St. Bryant, AR 72022

Mr. Carl A. Hutcherson 6WQ-EW EPA Region 6 1445 Ross Avenue Dallas, TX 75202-2733

Mr. Ken Carter
U.S. Army Eng. District LR
CESWL-ET-W
P. O. Box 867
Little Rock, AR 72203

Ms. Gloria Manning Acting Regional Forester USDA-Forest Service 1720 Peachtree Rd. Atlanta, GA 30367

Mr. Webster Hillman FSA State Committee Member 257 Hillman Road Almyra, AR 72003

Ms. Catherine Konecny FSA State Committee Member 1911 Beumer Stuttgart, AR 72160

Mr. Richard Plugge FSA State Committee Member P.O. Box 130 Hartman, AR 72840

Mr. Glenn Brackman Route 1, Box 141 Bradley, AR 71826

Mr. T.C. Holmes, Jr. 1172 Lee 407 Road Marianna, AR 72360

Mr. Jerry Masters
Executive Director
Arkansas Pork Producers' Association
625 Buck Mountain Road
Dover, AR 72837

Mr. Randy Thurman AR Environmental Federation Union Train Station, Suite 250 1400 W. Markham St. Little Rock, AR 72201-1840

Mr. David Mott U.S. National Park Service 402 N. Walnut, Ste. 136 Harrison, AR 72601

Mr. John Terry U.S. Geological Survey 401 Hardin Rd. Little Rock, AR 72211 Mr. W.D. Looper 4320 Nickletown Road Greenwood, AR 72936

Mr. Ernest Larry Phillips County CD 1362 Phillips 315 West Helena, AR 72390

Ms. Debbie Moreland Pulaski County Conservation District 20311 Lake Vista Road Roland, AR 72135

Mr. Mike LaFevers Pike County Conservation District Route 3, Box 76 Amity, AR 71921

Mr. Don Richardson
Executive Director
AR Association of Conservation Districts
101 East Capitol, Suite 350
Little Rock, AR 72201

Mr. Earl Smith ASWCC 101 East Capitol, Suite 350 Little Rock, AR 72201

Mr. Hugh Dorming Cargil Pork, Inc. P. O. Box 699 Russellville, AR 72811

Mr. Brad Lamb 6WQ-EW EPA Region 6 1445 Ross Avenue Dallas, TX 75202-2733

Mr. Chuck Bennett ADPC&E 8001 National Drive Complex Little Rock, AR 72210

Mr. Bill Keith ADPC&E 8001 National Drive Complex Little Rock, AR 72210 Mr. Ken Brazil ASWCC 101 East Capitol, Suite 350 Little Rock, AR 72201

Mr. Robert Morgan ASWCC 101 East Capitol, Suite 350 Little Rock, AR 72201 Mr. John Langston Cooperative Extension Service P.O. Box 391 Little Rock, AR 72203

Mr. Dennis Steuber Arkansas Brown Swiss Association 587 Augsburg Road London, AR 72847 Mr. Pete Pasley Associated Milk Producers, Inc. P. O. Box 45026 Little Rock, AR 72214

Mr. Larry Hale
Arkansas Cooperative Associations
P. O. Box 507
Damascus, AR 72039

Mr. Mark Cowan Arkansas Cattlemen's Association 310 Executive Court Little Rock, AR 72211 Mr. Rodney Baker U. S. Farm Bureau P. O. Box 31 Little Rock, AR 72203

Mr. Bill Reed Rice Council P. O. Box 927 Stuttgart, AR 72160-0927

Arkansas Beef Council 310 Executive Court Little Rock, AR 72205 Ms. Sue Cooper Arkansas Farmers Union 2215 North Reynolds Road Bryant, AR 72022

Mr. Ralph Day Arkansas Crop Protection Association 7408 Oakridge Road North Little Rock, AR 72116-4507

Mr. Dennis Robertson Arkansas Farm Bureau P. O. Box 31 Little Rock, AR 72203-0031 Arkansas Soybean Promotion Board P. O. Box 31 Little Rock, AR 72203-0031 Mr. J. Kelly Robbins, Executive Director Arkansas Forestry Association 410 S. Cross St., Suite C Little Rock, AR 72201-3014

Mr. Cecil Williams Arkansas Agricultural Council P. O. Box 1837 West Memphis, AR 72303-1837 Ms. DeLynn Holleman Audubon Society 715B Third Avenue Conway, AR 72032

The Sierra Club P. O. Box 22446 Little Rock, AR 72221

Nature Conservancy 601 N. University Avenue Little Rock, AR 72205 Ducks Unlimited 3443 Highway 153 DeWitt, AR 72042 Curtis Merrell, Ph.Ed., President Bayou Bartholomew Alliance 912 West 6th St. Pine Bluff, AR 71601

The Ozark Society
P. O. Box 2914
Little Rock, AR 72203

Mr. Ken Smith Ozark Natural Science Center Route 3, Box 184 Huntsville, AR 72740

Mr. Garner Jones Save Our Streams (Izaak Walton League) P. O. Box 1878 Greenwood, AR 72936

League of Women Voters 2020 W. Third St., Suite, 501 Little Rock, AR 72205

Ms. Emily Whitlock Crooked Creek Coalition Route 1, Box 398 Midway, AR 72651 Bill Layher, Ph.D., Program Coordinator Bayou Bartholomew Alliance 7233 Camden Cutoff Road Pine Bluff, AR 71603

Arkansas Canoe Club P. O. Box 1843 Little Rock, AR 72203 Arkansas Public Policy Panel 103 W. Capitol, Suite 1115 Little Rock, AR 72201 Mr. Eric Stagg, District Director AACD Route 1, Box 307 Clinton, AR 72031 r. Harold Seifert, Director kansas Department of Health 15 W. Markham, Mail Slot 37 (Eng.Div.) ttle Rock, AR 72205 Mr. Dan Flowers, DirectorArkansas Highway & Transportation Dept.P. O. Box 2261Little Rock, AR 72203

Mr. Don A. Zimmerman, Exec.Dir. Arkansas Municipal League P. O. Box 38 North Little Rock, AR 72115

r. Greg Reep rkansas Municipal League O. Box 352 /arren, AR 71671 Mr. Kenneth Steele, Director Arkansas Water Resource Center University of Arkansas at Fayetteville 113 Ozark Hall Fayetteville, AR 72701 Mr. Jack B. Waide FTN Associates, Ltd. 3 Innwood Circle, Suite 220 Little Rock, AR 72211

[r. David Foster, Directorof A Cooperative Extension ServiceO. Box 391ittle Rock, AR 72203

Colonel P. S. Morris, District Engineer U.S. Corps of Engineers P. O. Box 867 Little Rock, AR 72201 Mr. Al Newman USDA-Forest Service Ouachita National Forest P. O. Box 1270 Hot Springs, AR 71901

4r. Allan Mueller J.S. Fish & Wildlife Service 524 S. Frontage Rd., Suite B /icksburg, MS 39180-5269 Mr. William Schenk, Director USDA Park Service - Midwest Reg.Office 1709 Jackson St. Omaha, NE 68102 Ms. Laura Foulliere, Superintendent Arkansas Post National Memorial 1741 Old Post Rd. Gillett, AR 72055

Mr. Jack Linahan, Superintendent Buffalo National River 2. O. Box 1173 Harrison, AR 72602-1173 Mr. Bill Black, Superintendent Fort Smith National Historic Site P. O. Box 1406 Fort Smith, AR 72902 Mr. Roger Giddings, Superintendent USDA Park Service Hot Springs National Park P. O. Box 1860 Hot Springs, AR 71902-1860

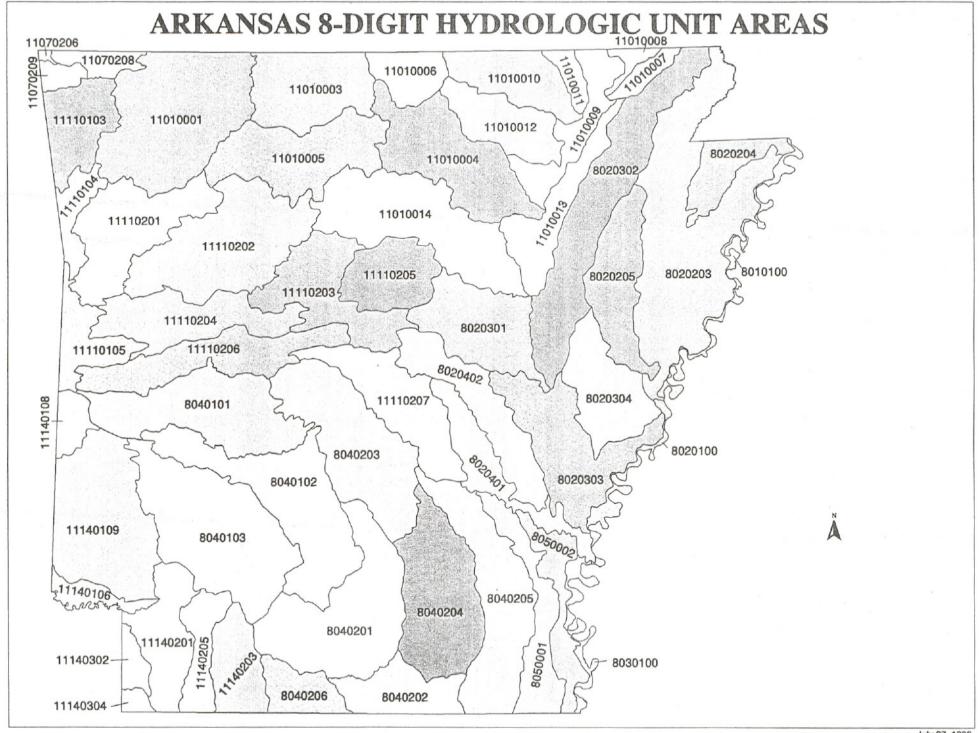
Pea Ridge National Military Park P. O. Box 700 Pea Ridge, AR 72751 Mr. Robert Lidwin, District Chief U.S. Geological Survey 401 Hardin Little Rock, AR 72211

PRIORITY WATERSHEDS ASWCC 303D IMPAIRED STREAMS & STREAMS OF CONCERN ADPC&E NRCS **EOIP 1998 FUNDED AREAS** ADNH CRITICAL IMPERILED FISHES AND MUSSELS WETLAND RESTORATION AREAS USFWS

DRINKING WATER SUPPLY LOCATIONS

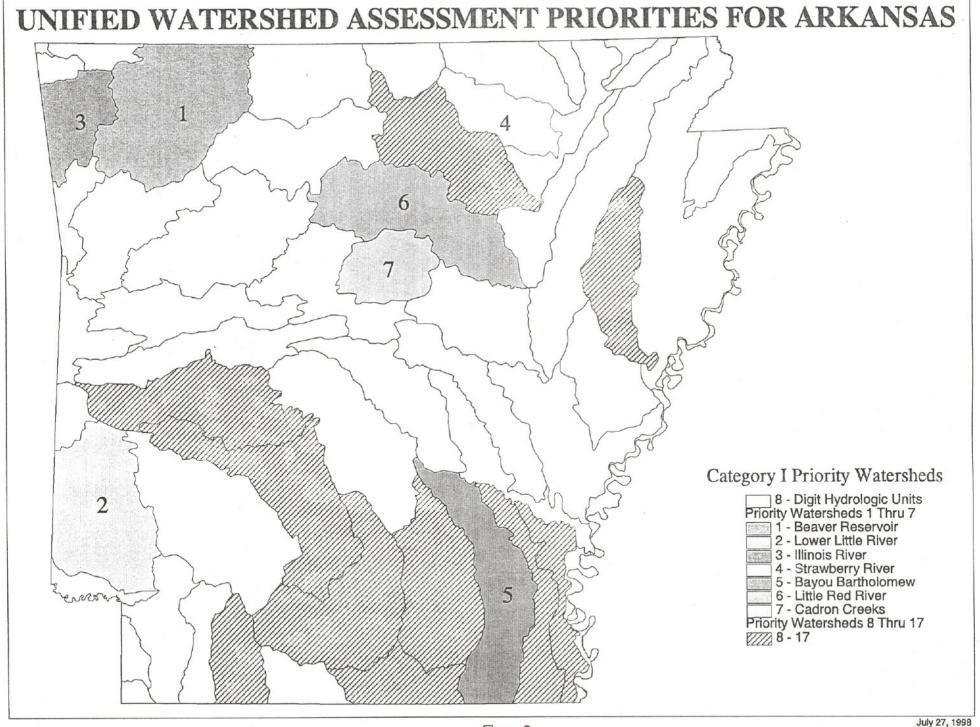
FEDERAL & STATE OWNERSHIP MAP

ADH

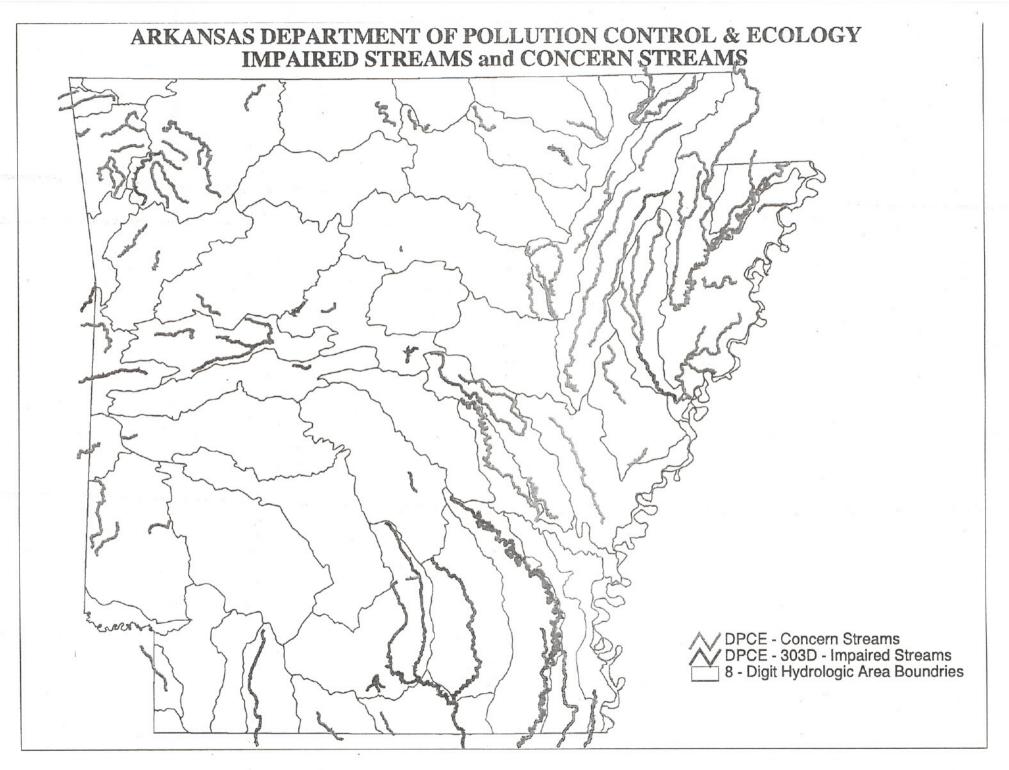


July 27, 1998

### UNIFIED WATERSHED ASSESSMENT CATEGORIES FOR ARKANSAS IV п, ш П II І, Ш I, III I, III П П, Ш I, III II, III II I, III $\Pi$ , $\Pi$ И, Ш П I $\Pi, \Pi$ П $\Pi$ , $\Pi$ II ο II, III П II A, W I, III II II, III П, Ш II I, III I, III II, III І, Ш eressa I, III IV IV II,III -I, III П I, III IV

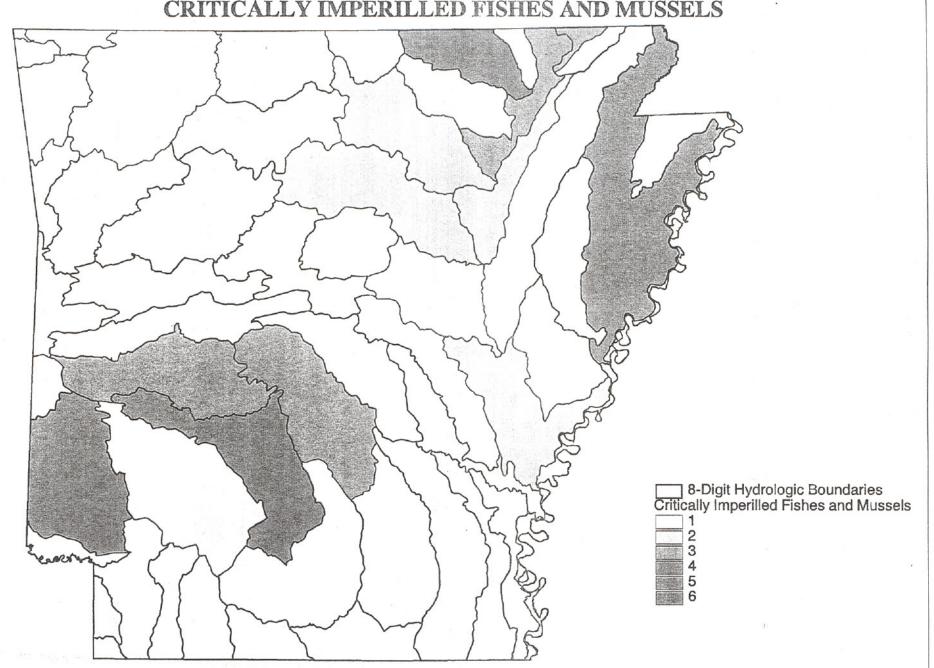


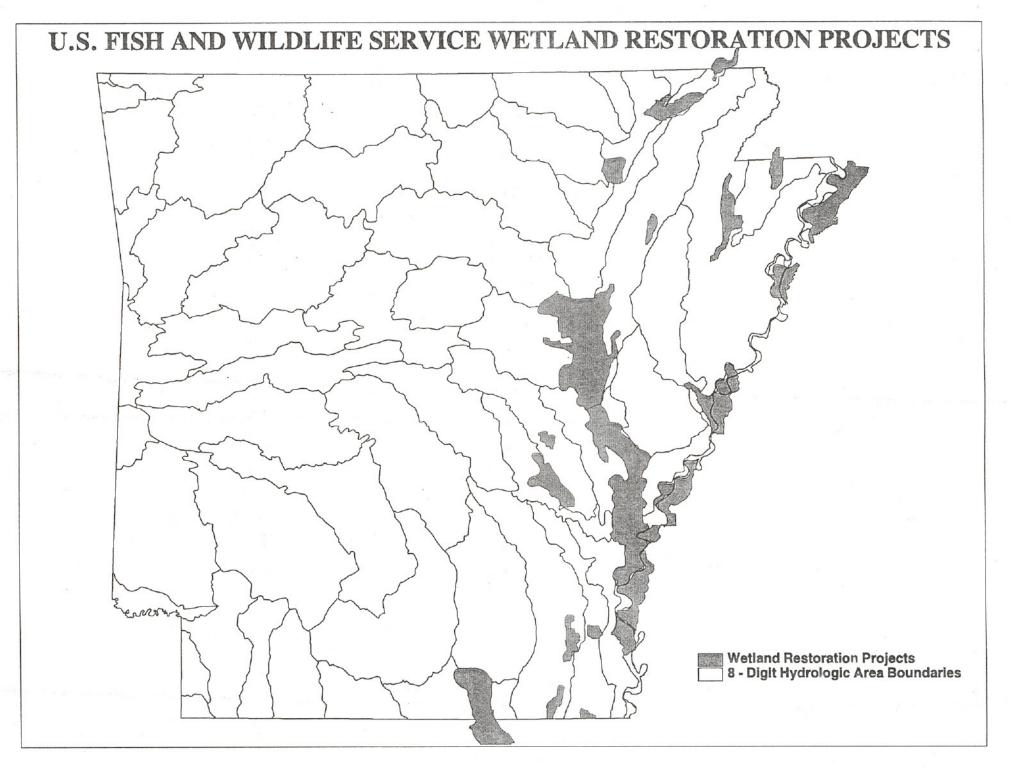
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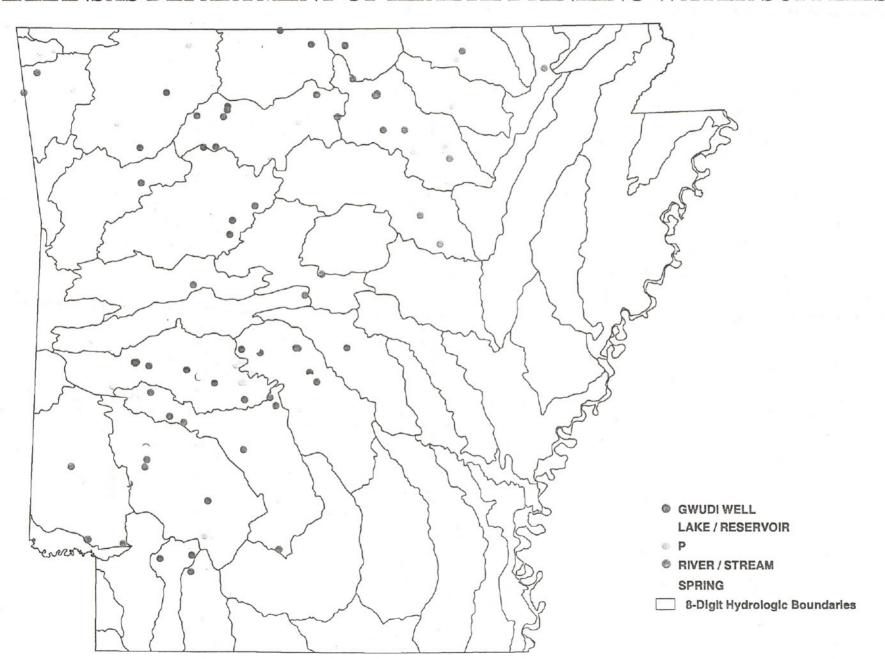
# USDA NATURAL RESOURCES CONSERVATION SERVICE 1998 EQIP FUNDED AREAS 8 - Digit Hydrologic Area Boundaries EQIP - Approved and Funded

# ARKANSAS DEPARTMENT OF NATURAL HERITAGE CRITICALLY IMPERILLED FISHES AND MUSSELS





# ARKANSAS DEPARTMENT OF HEALTH DRINKING WATER SUPPLIES



# FEDERAL AND STATE LAND OWNERSHIP

